Normal Background Statistics for Uncensored Full Data Sets

User Selected Options		
Date/Time of Computation	7/31/2013 7:41:10 AM	
From File	WorkSheet.xls	
Full Precision	OFF	
Confidence Coefficient	95%	
Coverage	95%	
New or Future K Observations	1	

Zinc

General Statistics

Total Number of Observations	67	Number of Distinct Observations	64
Minimum	40.4	First Quartile	59.2
Second Largest	114	Median	73.4
Maximum	165	Third Quartile	88.83
Mean	74.68	SD	21.3
Coefficient of Variation	0.285	Skewness	1.117
Mean of logged Data	4.275	SD of logged Data	0.278

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL)	1.994	d2max (for USL)	3.068

Normal GOF Test

Shapiro Wilk Test Statistic	0.938	**Normal GOF Test**
5% Shapiro Wilk P Value	0.00337	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.0863	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.108	Data appear Normal at 5% Significance Level

Data appear Approximate Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

95% UTL with 95% Coverage	117.2	90% Percentile (z)	102
95% UPL (t)	110.5	95% Percentile (z)	109.7
95% USL	140	99% Percentile (z)	124.2

Note: The use of USL to estimate a BTV is recommended only when the data set represents a background

data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data

represents a background data set and when many onsite observations need to be compared with the BTV.